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<u>The Legion Resource Management System</u> - by Chapin - 99 citations
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Oracle 8.1.5 new Features
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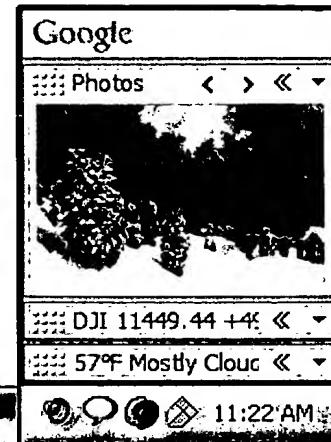specify adaptive behavior to **trigger** when the applica-. tion falls outside normal ranges. ...
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      Stanley Y. W. Su, Herman Lam, Javier Arroyo-Figueroa, Tsae-Feng Yu, Zhidong Yang
      December 1995 **Proceedings of the fourth international conference on Information
                  and knowledge management**
      Publisher: ACM Press
      Full text available: 🅰 pdf(1.17 MB)   Additional Information: full citation, references, index terms

2   Industry track: RStar: an RDF storage and query system for enterprise resource
⬥   management
      Li Ma, Zhong Su, Yue Pan, Li Zhang, Tao Liu
      November 2004 **Proceedings of the thirteenth ACM international conference on
                  Information and knowledge management CIKM '04**
      Publisher: ACM Press
      Full text available: 🅰 pdf(704.00 KB)   Additional Information: full citation, abstract, references, index terms

      Modern corporations operate in an extremely complex environment and strongly depend
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      in physically different systems and databases. How to effectively exploit information
      across the enterprise is becoming a critical but hard problem. In recent years, metadata
      which is the detailed description of the data is used ·...

      Keywords: RDF query language, RDF storage, metadata, ontology, resource
      management

3   Aurora: a new model and architecture for data stream management
      Daniel J. Abadi, Don Carney, Ugur Çetintemel, Mitch Cherniack, Christian Convey, Sangdon
      Lee, Michael Stonebraker, Nesime Tatbul, Stan Zdonik
      August 2003 **The VLDB Journal — The International Journal on Very Large Data
                  Bases**, Volume 12 Issue 2
      Publisher: Springer-Verlag New York, Inc.
      Full text available: 🅰 pdf(585.97 KB)   Additional Information: full citation, abstract, citings, index terms

      Abstract.This paper describes the basic processing model and architecture of Aurora, a
      new system to manage data streams for monitoring applications. Monitoring applications
      differ substantially from conventional business data processing. The fact that a software
      system must process and react to continual inputs from many sources (e.g., sensors)

rather than from human operators requires one to rethink the fundamental architecture of a DBMS for this application area. In this paper, we present Aur ...

Keywords: Continuous queries, Data stream management, Database triggers, Quality-of-service, Real-time systems

4 Database theory, technology and applications (DTTA): Architectures for a temporal workflow management system
Carlo Combi, Giuseppe Pozzi
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(257.71 KB)   Additional Information: full citation, abstract, references, index terms

Workflows describe business processes as the coordinated execution of simple activities (tasks) by human or automatic executors (agents). Workflow management systems (WfMS) are software systems supporting the automatic execution of workflows. Most WfMSs rely on database management systems (DBMS) where temporal aspects, which are relevant for the execution of a workflow, are managed explicitly. In this paper we discuss different architectures for a temporal WfMS: then we propose yet another workf ...

Keywords: active DBMS, temporal DBMS, temporal workflow management system, workflow management system - WfMS

5 PSoup: a system for streaming queries over streaming data
Sirish Chandrasekaran, Michael J. Franklin
August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(267.99 KB)   Additional Information: full citation, abstract, index terms

Abstract.Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also require the processing of data that arrives prior to query submission or during a period of disconnection. For such applications, we have developed PSoup, a system that combines the processing of ad hoc and continuous queries by treating data and ...

Keywords: Disconnected operation, Query-data duality, Stream query processing

6 The model-assisted global query system for multiple databases in distributed enterprises
Waiman Cheung, Cheng Hsu
October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: pdf(697.73 KB)   Additional Information: full citation, abstract, references, citings, index terms

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

7 System R: relational approach to database management
M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths,

W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson
June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2
Publisher: ACM Press

Full text available: pdf(3.18 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

8 A taxonomy of Data Grids for distributed data sharing, management, and processing
Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: pdf(1.70 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

9 Special topic section on peer to peer data management: P-Grid: a self-organizing structured P2P system
Karl Aberer, Philippe Cudré-Mauroux, Anwitaman Datta, Zoran Despotovic, Manfred Hauswirth, Magdalena Punceva, Roman Schmidt
September 2003 **ACM SIGMOD Record**, Volume 32 Issue 3
Publisher: ACM Press
Full text available: pdf(63.00 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>

10 PODS invited talk: Models and issues in data stream systems
Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom
June 2002 **Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**
Publisher: ACM Press
Full text available: pdf(257.79 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying *data streams.* In addition to reviewing past work relevant to data stream systems and current projects in the area, the paper explores topics in stream query languages, new requirements and challenges in query processing, and algorithmic issues.

11 Systems and prototypes: Java support for data-intensive systems: experiences

building the telegraph dataflow system

Mehul A. Shah, Michael J. Franklin, Samuel Madden, Joseph M. Hellerstein
December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(1.38 MB)　　　Additional Information: full citation, abstract, references, citings

Database system designers have traditionally had trouble with the default services and
interfaces provided by operating systems. In recent years, developers and enthusiasts
have increasingly promoted Java as a serious platform for building data-intensive servers.
Java provides a number of very helpful language features, as well as a full run-time
environment reminiscent of a traditional operating system. This combination of features
and community support raises the question of whether Java is be ...

12　C-TODOS: an automatic tool for office system conceptual design

B. Pernici, F. Barbic, R. Maiocchi, M. G. Fugini, J. R. Rames, C. Rolland
October 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 4

Publisher: ACM Press

Full text available: pdf(2.88 MB)　　　Additional Information: full citation, abstract, references, citings, index terms, review

Designers of office information systems, which share various features with information
systems and software development, need to carefully consider special issues such as
document and communication flows, user roles, user interfaces, and available technology.
The ESPRIT Project, Automatic TOols for Designing Office Information Systems (TODOS),
proposes an integrated environment for office design with tools for requirements
collection and analysis, conceptual design, rapid prototy ...

13　Metadatabase solutions for enterprise information integration problems

Cheng Hsu, Laurie Rattner
January 1993 **ACM SIGMIS Database**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(1.29 MB)　　　Additional Information: full citation, abstract, index terms

The success of modern information technology in the past decades has brought about the
proliferation of systems dedicated to individual groups of applications and functions. This
proliferation, in turn, has led to the need for enterprise-wide management and integration
of information, and has triggered major efforts such as systems integration, re-
engineering, and computer integrated manufacturing. Nonetheless, achieving such
integration remains a challenge. To effectively manage information reso ...

14　Evolution of Data-Base Management Systems

James P. Fry, Edgar H. Sibley
March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(2.63 MB)　　　Additional Information: full citation, references, citings, index terms

15　A scalable distributed information management system

Praveen Yalagandula, Mike Dahlin
August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the
2004 conference on Applications, technologies, architectures, and
protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: pdf(364.00 KB)　　　Additional Information: full citation, abstract, references, index terms

We present a Scalable Distributed Information Management System (SDIMS) that
aggregates information about large-scale networked systems and that can serve as a
basic building block for a broad range of large-scale distributed applications by providing
detailed views of nearby information and summary views of global information. To serve

as a basic building block, a SDIMS should have four properties: scalability to many nodes and attributes, flexibility to accommodate a broad range of appl ...

Keywords: distributed hash tables, information management system, networked system monitoring

16 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(2.84 MB)   Additional Information: full citation, references, citings, index terms

17 Research sessions: P2P and sensor networks: Efficient query reformulation in peer data management systems

Igor Tatarinov, Alon Halevy

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(291.76 KB)   Additional Information: full citation, abstract, references, citings

Peer data management systems (PDMS) offer a flexible architecture for decentralized data sharing. In a PDMS, every peer is associated with a schema that represents the peer's domain of interest, and semantic relationships between peers are provided locally between pairs (or small sets) of peers. By traversing *semantic paths* of mappings, a query over one peer can obtain relevant data from any reachable peer in the network. Semantic paths are traversed by reformulating queries at a peer int ...

18 Data base system objectives as design constraints

Mary E. Snuggs, Gerald J. Popek, Ronald J. Peterson

December 1974 **ACM SIGMIS Database**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(724.77 KB)   Additional Information: full citation, references

19 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(4.85 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

20 Data sharing in group work

Irene Greif, Sunil Sarin

April 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(2.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Data sharing is fundamental to computer-supported cooperative work: People share information through explicit communication channels and through their coordinated use of shared databases. This paper examines the data management requirements of group work applications on the basis of experience with three prototype systems and on observations from the literature. Database and object management technologies that support these requirements are briefly surveyed, and unresolved issues in the par ...

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1 ## PSoup: a system for streaming queries over streaming data
Sirish Chandrasekaran, Michael J. Franklin
August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(267.99 KB)   Additional Information: full citation, abstract, index terms

Abstract.Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also require the processing of data that arrives prior to query submission or during a period of disconnection. For such applications, we have developed PSoup, a system that combines the processing of ad hoc and continuous queries by treating data and ...

Keywords: Disconnected operation, Query-data duality, Stream query processing

2 ## System R: relational approach to database management
M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson
June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(3.18 MB)   Additional Information: full citation, abstract, references, citings, index terms

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

3 ## PODS invited talk: Models and issues in data stream systems
Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom

June 2002 **Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: .pdf(257.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying *data streams.* In addition to reviewing past work relevant to data stream systems and current projects in the area, the paper explores topics in stream query languages, new requirements and challenges in query processing, and algorithmic issues.

4 A taxonomy of Data Grids for distributed data sharing, management, and processing ■

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: .pdf(1.70 MB)   Additional Information: full citation, abstract, references, index terms

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

5 C-TODOS: an automatic tool for office system conceptual design ■

B. Pernici, F. Barbic, R. Maiocchi, M. G. Fugini, J. R. Rames, C. Rolland
October 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 4

Publisher: ACM Press

Full text available: .pdf(2.88 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Designers of office information systems, which share various features with information systems and software development, need to carefully consider special issues such as document and communication flows, user roles, user interfaces, and available technology. The ESPRIT Project, Automatic TOols for Designing Office Information Systems (TODOS), proposes an integrated environment for office design with tools for requirements collection and analysis, conceptual design, rapid prototy ...

6 The STRIP rule system for efficiently maintaining derived data ■

Brad Adelberg, Hector Garcia-Molina, Jennifer Widom
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: .pdf(1.68 MB)   Additional Information: full citation, abstract, references, citings, index terms

Derived data is maintained in a database system to correlate and summarize base data which records real world facts. As base data changes, derived data needs to be recomputed. This is often implemented by writing active rules that are triggered by changes to base data. In a system with rapidly changing base data, a database with a standard rule system may consume most of its resources running rules to recompute data. This paper presents the rule system implemented as part of the STandard Re ...

7 NiagaraCQ: a scalable continuous query system for Internet databases ■

Jianjun Chen, David J. DeWitt, Feng Tian, Yuan Wang

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press

Full text available: pdf(165.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

Continuous queries are persistent queries that allow users to receive new results when they become available. While continuous query systems can transform a passive web into an active environment, they need to be able to support millions of queries due to the scale of the Internet. No existing systems have achieved this level of scalability. NiagaraCQ addresses this problem by grouping continuous queries based on the observation that many web queries share similar structures. Grouped queries ...

8 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70
Publisher: ACM Press

Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

9 Special section: Special issue on AI and Database research

Jonathan J. King
October 1983 **ACM SIGART Bulletin**, Issue 86
Publisher: ACM Press

Full text available: pdf(3.84 MB)   Additional Information: full citation, abstract

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

10 LH*RS: a high-availability scalable distributed data structure using Reed Solomon Codes

Witold Litwin, Thomas Schwarz
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press

Full text available: pdf(155.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

LH*RS is a new high-availability Scalable Distributed Data Structure (SDDS). The data storage scheme and the search performance of LH*RS are basically these of LH*. LH*RS manages in addition the parity information to tolerate the unavailability of k ⪈ 1 server sites. The value of k scales with the file, to prevent the reliability decline. The parity calculus uses the Reed -Solomon Codes. The storage and access performance over ...

Keywords: Reed-Solomon Codes, SDDS, high-availability, scalable

11 Industry track: RStar: an RDF storage and query system for enterprise resource management

Li Ma, Zhong Su, Yue Pan, Li Zhang, Tao Liu
November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**
Publisher: ACM Press

Full text available: pdf(704.00 KB)   Additional Information: full citation, abstract, references, index terms

Modern corporations operate in an extremely complex environment and strongly depend on all kinds of information resources across the enterprise. Unfortunately, with the growth of an enterprise, its information resources are not only heterogeneous but also distributed in physically different systems and databases. How to effectively exploit information across the enterprise is becoming a critical but hard problem. In recent years, metadata which is the detailed description of the data is used ...

Keywords: RDF query language, RDF storage, metadata, ontology, resource management

12 The LHAM log-structured history data access method
Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum
February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(494.76 KB)   Additional Information: full citation, abstract, index terms

Numerous applications such as stock market or medical information systems require that both historical and current data be logically integrated into a temporal database. The underlying access method must support different forms of "time-travel" queries, the migration of old record versions onto inexpensive archive media, and high insertion and update rates. This paper presents an access method for transaction-time temporal data, called the log-structured history data access method (L ...

Keywords: Data warehouses, Index structures, Performance, Storage systems, Temporal databases

13 Final report of the ANSI/X3/SPARC DBS-SG relational database task group
July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4
Publisher: ACM Press
Full text available: pdf(4.69 MB)   Additional Information: full citation

14 Query Optimization in Database Systems
Matthias Jarke, Jurgen Koch
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2
Publisher: ACM Press
Full text available: pdf(2.84 MB)   Additional Information: full citation, references, citings, index terms

15 Object orientation in multidatabase systems
Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid
June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2
Publisher: ACM Press
Full text available: pdf(4.85 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

16 A survey of structured and object-oriented software specification methods and techniques
Roel Wieringa
December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4
Publisher: ACM Press

Full text available: ⬛ pdf(605.26 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in w ...

Keywords: languages

17 An intelligent user interface to CIM multiple data bases
David M. Dilts, Wenhua Wu
September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**
Publisher: ACM Press
Full text available: ⬛ pdf(1.50 MB)   Additional Information: full citation, references, index terms

18 Oasis: an architecture for simplified data management and disconnected operation
Maya Rodrig, Anthony LaMarca
March 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 2
Publisher: Springer-Verlag
Full text available: ⬛ pdf(450.62 KB)   Additional Information: full citation, abstract

Oasis is an asymmetric peer-to-peer data management system tailored to the requirements of pervasive computing. Drawing upon applications from the literature, we motivate three high-level requirements: availability, manageability, and programmability. Oasis addresses these requirements by employing a peer-to-peer network of weighted replicas and performing background self-tuning. In this paper, we describe our architecture, our consistency-control mechanism, and an initial implementation. Our pe ...

19 Special issue: AI in engineering
D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: ⬛ pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

20 A scalable distributed information management system
Praveen Yalagandula, Mike Dahlin
August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4
Publisher: ACM Press

Full text available: [PDF] .pdf(364.00 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We present a Scalable Distributed Information Management System (SDIMS) that *aggregates* information about large-scale networked systems and that can serve as a basic building block for a broad range of large-scale distributed applications by providing detailed views of nearby information and summary views of global information. To serve as a basic building block, a SDIMS should have four properties: scalability to many nodes and attributes, flexibility to accommodate a broad range of appl ...

Keywords: distributed hash tables, information management system, networked system monitoring

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